US Department of Agriculture Natural Resources Conservation Service

November 1999

SPECIES HABITAT EVALUATION (SHE) FOR BATS NEVADA

(Riparian Based)

OWNER/USER UNIT

LOCATIONSEC .T R UTM

OBSERVER MAP NO

ASPECT SHE NO

DATE

HOME RANGE: Mean distances between feeding areas and roosting areas are variable. In Nevada, most bat species' habitats are based on the quality of the riparian area.

Principal bat species of concern:

Factor	Component	Value	Rating Before After
1. PLANT COMMUNITY	a. Mixed Riparian; Diverse; willow-cottonwood, boxelder tamarisk. 3+ veg. Species	.8 - 1.0	
	b. Arrow weed, tamarisk, 2 species	.4 - .7	
	c. Tamarisk or kochia, etc. 1 species	0 - .3	
2. STRUCTURE (layers of veg.)	a. 1 tree layer plus 2 other	.8 - 1.0	
	b. 1 tree layer plus 1 other	.4 - .7	
	c. 1 layer with no trees. (herbaceous, shrub, . short tree, tall tree)	0 - .3	
3. CANOPY COVER %	a. 60% or more	.8-1.0	
	b. 20—59%	.4- .7	
	c. 0—19%	0-.3	
4. SIZE OF AREA RIPARIAN COMMUNITY	a. 8 acres or more	.8 - 1.0	
	b. 4—8 acres	.4 -. 7	
	c. 0— 3 acres	0 - .3	
5. PROXIMITY TO WATER	a. Open water within 0-150 feet	.8 - 1.0	
	b. 15 1-300 feet	.4 - .7	
	c. 300+	0 -. 3	
6. HOME SITE	a. dense thickets of homogeneous foliage, contiguous vegetation	.8 - 1.0	
	b. moderately dense, somewhat mixed foliage, contiguous veg.	.4 - .7	
	c. Isolated trees/shrubs, scattered veg., open foliage	0 - .3	
7. HOME SITE HEIGHT	a. 13 — 15 ft. tall vegetation	.8 - 1.0	
	b. 9 — 12 ft. tall vegetation	.4 - .7	
	c. 0—8 ft. tall vegetation	0 - .3	
8. GRAZING (any large ungulate)	a. scheduled mangt. System w/spring-summer rest or no grazing	.8 - 1.0	
	b. fall-winter grazing or deferred in summer-spring 1 year in 2-3	.4 - .7	
	c. spring -summer grazed or year-round use	0 - .3	

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FOR BATS
NEVADA
(Riparian Based)

Component	Before	After	Weight	Score	Score
1. Plant Community			X3		
2. Structure			X2		
3. Canopy Cover			X2		
4. Size of Area			X2		
5. *Proximity to Water*			X2		
6. Home Site			X3		
7. Home Height			X2		
8. Grazing			X2		
9. Roost Sites			X3		
SUM			21		

Before Overall Score (Sum/21) **=**_____

After Overall Score (Sum/21) **=** _____

If Score > *.5* then it meets quality criteria and the practices are still eligible for cost share.
If Score <*.5* then plan practices to benefit the species' habitat. Wildlife Management is not reportable at this level

The Species Habitat Evaluation (SHE) was developed in consultation with and in concurrence with Bat Conservation International (BCI). Draft approved for use by the NV NRCS State Wildlife Biologist, Robert Schmidt, CWB, 1999

It will determine the 'benchmark' (before) habitat value for the target species' in its cruising radius.* The 'after' habitat value will be compared to the 'before'. A habitat value of *.5* or greater is necessary to report NRCS Conservation Practice *645* or 644. To determine specific wildlife species' habitat requirements, use NRCS's Bio Tech Notes 24-29 and this Species' Habitat Evaluation (SHE).

Cruising Radius = the distance traveled by the target wildlife species' to meet its *short term* habitat needs: food, cover and water. Home Range = the area traveled by the target wildlife species' to meet its *long term* habitat needs (for the perpetuation of species').